KONK, Vladimir, inz., architekt; WENCL, Zdenek, inz.

A new air station in Ruzyne. Letecky obzor 6 no.7:194-195
'62.

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDI

CIA-RDP86-00513R000824310005-8

KON'KA, Ye.; BEKMAN, V.

Abroad. Avt.transp. 41 no.10:52-58 0 '63.

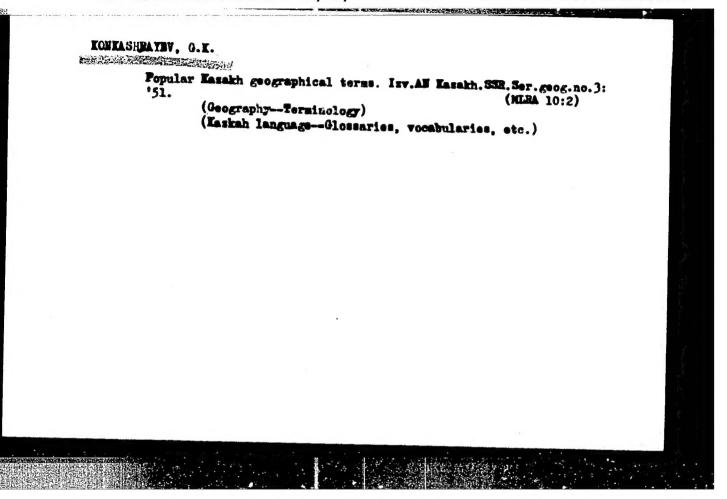
(MIRA 16:10)

l. Zamestitel' predsedatelya Glavnogo pravleniya professional'nogo soyuza rabochikh transporta i dorog Pol'skoy Narodnoy Respubliki (for Kon'ka).

the second secon

KONKABAYEV, Ye.K.

Working and free time of miners in the Karaganda Basin and ways of its efficient us during the period of the large scale building of communist. Nauch. trudy KNIUI no.14:530-543 *64. (MIRA 18:4)



KONKASHBAYEV, G.; AUBAKIROV, Zh.

Brief Russian-Kazakh terminological dictionary of physical geography [in Kazakh with summary in Russian]. Vest. AN Kazakh. SSR 14 no.3: 50-63 Mr 158. (MIRA 11:5)

(Physical geography—Dictionaries)
(Bussian language—Dictionaries—Kazakh)

ABDRAKHMANOV, A.A., kand.filolog.nauk; DONIDZE, G.I., kand.filolog.nauk; KARMYSHEVA, Dzh.Kh., inzh.-kartograf; KONKASHBAYEV, G.K., kand. geograf.nauk; ROROKINA, Z.P., tekhn.red.

[Instructions for the Russian transcription of geographical names in the Kasakh S.S.R.] Instruktsiia po russkoi peredache geograficheskikh nazvenii Kasakhskoi SSR. Alma-Ata, Izd-vo škad.nauk Kasakhskoi SSR, 1959. 13 p. (MIRA 13:2)

1. Russia (1923- U.S.S.R.) Glavnoye upravleniye geodezii i kartografii.

(Kasakhstan--Names, Geographical)

KONKASHPAYEV, Gali Konkashpayevich; GLADYSHEVA, Ye.N., otv. red.; SHUPLOVA, M.A., red.; KHUDYAKOV, A.G., tekhn. red.

[Dictionary of Kazakh geographical names] Slovar' kazakhskikh geograficheskikh nazvanii. Alma-Ata, Izd-vo AN Kazakh. SSR, 1963. 184 p. (MIRA 16:11) (Kazakhstan-Geography-Dictionaries)

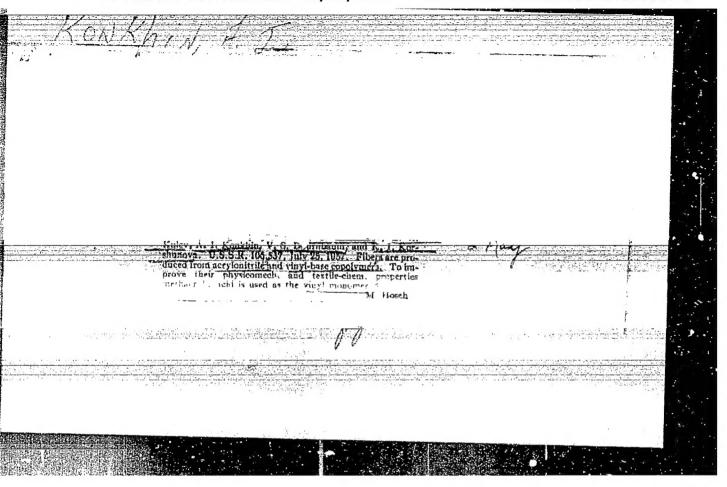
"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000824310005-8

G. KONKASHBAYEV. Ekonomicheskaya Geografiya Kazakhskoy SSR (by) M.Sh. Yarmukhamedov (1) G. Konkashpayev. Alma-Ata, Kazakhskoye Uchpedgiz, 1960. 87 p. Illus, Maps. Title and Text in Kazakh. "Uchebnoye Posobiye Dlya 9 Klassa."

KONKASHPAYEV, G.K.

Some difficult of understand geographical names in Kazakhstan.
Trudy otd. geog. AN Kazakh. SSR no.9:240-243 '62. (MIRA 15:6)
(Kazakhstan-Names, Geographical)



KONKILEV, N.

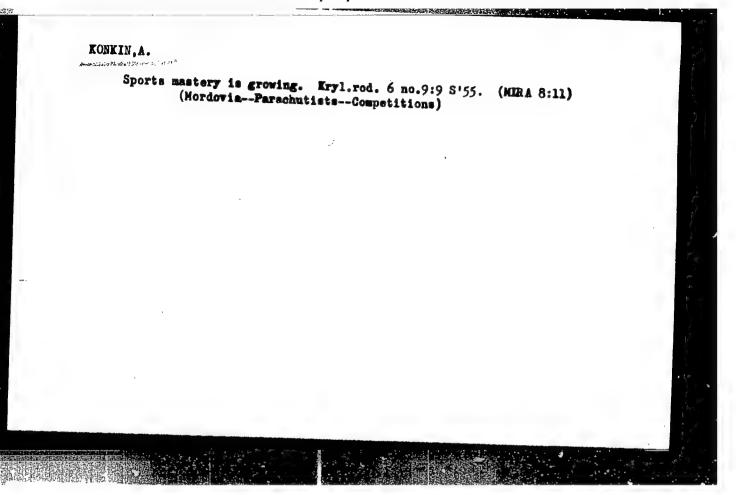
"Question on simplifying and improving the accounting system."

p. 1 (Otchetnost I Kontrol, Vol. 6, no. 12, 1957, Sofiia, Bulgaria.)

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 6, June 1958.

KONKILEV, N.

Increased labor productivity, and decreased cost price in the V. Kolarov Plant for High-Woltage Equipment and the Troyan Plant for Small Electric Engines. Mashinostroene 11 no.7/8:53-54 J1-Ag 162.



85-58-1-9/28

AUTHOR:

Konkin, A. (Saransk)

TITLE:

The Vocation of Alexander Pankov (Prizvaniye Aleksandra

Pankova)

PERIODICAL: Kryl'ya rodiny, 1958, Nr 1, pp 10-11 (USSR)

ABSTRACT:

This is a biographical sketch of Alexander Pankov, sports-

man-parachutist and instructor, former student at the

Gomel' River Tekhnikum and Gomel' Aeroclub.

AVAILABLE:

Library of Congress

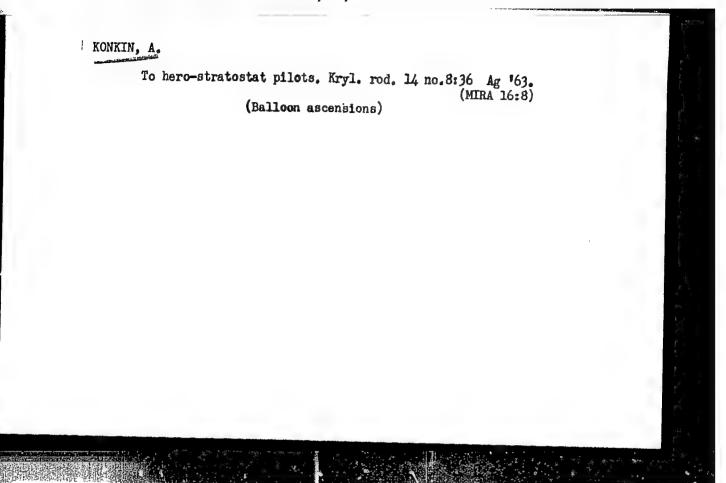
Card 1/1

Where are all the clubs? Kryl.rod. 11 no.1:23 Ja '60.

(Saransk--Airplanes--Models)

BELKIN, A.; BORISOV, A.; GENIN, B.; GUSLITSER, I.; GRUZDEV, V.; DICH,S.;
DUSEYEVA, Ye.; YEGOROVA, A.; ZAK, S.; KAZYMOV, A.; KRUPENNIKOVA,Ye.;
KONKIN, A.; MOGILEVSKIY, Ye.; PARSHVER, A.; SMELKOV, G.;
CHICHKHIANI, A.; CHUGUNOV, K.; SHIFRIN, L.; YUNOVICH, E.

Sergei Alekseevich Tairov. Khim.volok. no.3:79 '62. (MIRA 16:2) (Tairov, Sergei Alekseevich)



AGRANOVSKIY, I.; ARANOVICH, B.; BELYAYEVA, V.; BOL'SHAKOV, A.; GRUZDEV, V.; DICH, S.; ZELENTSOV, I.; KONKIN, A.; LEVIT, R.; MIKHAYLOV, N.; MOGILEVSKIY, Ye.; SERKOV, A.; SMELKOV, G.; SNETKOV, N.; SOROKIN, Ya.; SHIFRIN, L.

In memory of Vladimir Sergeevich Smurov, 1897-1965. Khim. volok. no.2:78 '65. (MIRA 18:6)

אר וון

USSR/Form Animals - General Problems.

6-1

APPROVED FOR RELEASE: 06/19/2000, CIA-RDP86-00513R000824310005

Author

: Konkin, A.

Inst

: Alma-Ata Institute of Moology and Veterinary Medicine.

Title

: The Development of Animal Husbandry and Feeding Centure in Regions Situated Between Ili and Karatal Rivers.

Orig Pub

: Sb. nauchn. tr. obshchosty.-ckop. kafedr Alm-Atansh.

200vet. in-ta, Alma-Ata, 1957, 14-100

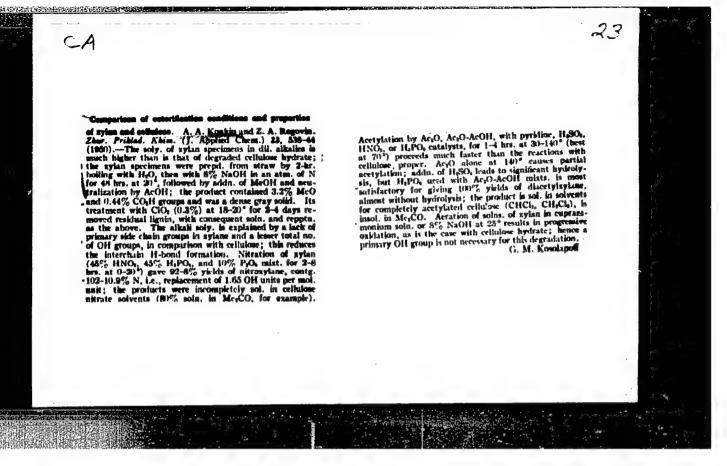
Abstract : No abstract.

Card 1/1

KONKIN, A. A. Cand. Tech. Sci.

Dissertation: "Development of a New Method for Separating Cellulose from Wood." Moscow Textile Inst, 23 Oct 47.

SO: Vechernyaya Moskva, Oct, 1947 (Project #17836)



KONKIN FIFT. KONKIH, A.A.; BUYAHOVA, V.K.; VINOGRADOVA, L.M.; ROGOVIN, Z.A. Effect of the composition and structure of monoses and aglucons on the resistance of glucosides to the action of acids. Soob.o mauch. rab.chl.VEHO no.3:1-5 '53. (MIRA 10:10) (Hydrolysis) (Glucosides)

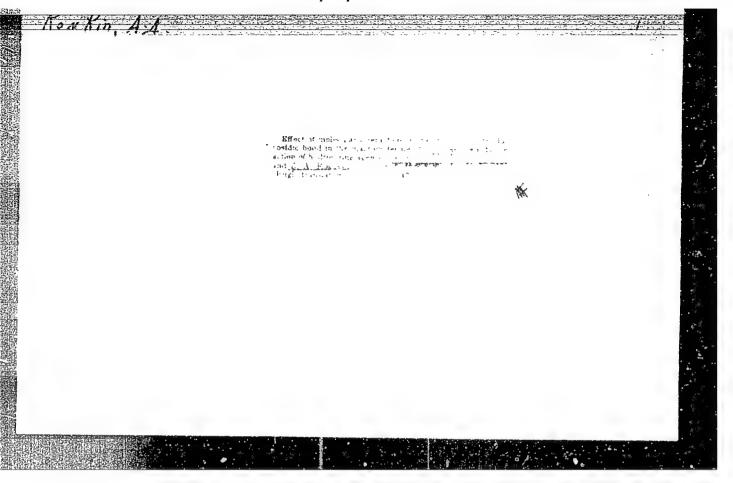
"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000824310005-8

KONKIN, A.A.; KRYLOVA, R.A.; ROGOVIN, Z.A.

Effect of intermolecular interaction on the resistance of the glucoside bond in a cellulose macromolecule, to the action of hydrolyzing reagents. Koll.zhur. 15 no.4:246-251 53. (MLRA 6:8)

1. Hoskovskiy tekstil'nyy institut. Kafedra iskusatvennogo volokna. (Cellulose) (Hydrolysis)



BIOH 5%. MesCO 60-5%, and MesCO + 10%, Hr.O 93-5%; undried X was sol, in AcOH, diorane, Profit, 1% NaOH soln., C.H.N., and I., whereas X dried at 100° diesolved with considerable difficulty. The carthohydrate content of undried X was 5.5%, rande up of 3.12% pentocontent of undried X was 5.6%, rande up of 3.12% pentocontained 1% carbohydrate. Upon treatment of K with 15% soln, of H.SO., it became insol, in I. AcOH, PhOH, 5% soln, of H.SO., it became insol, in I. AcOH, PhOH, and 1% NaOH soln. For HCl concus. of 0.10, 0.05, 0.03, 0.02, 0.02, 0.05, and 0.05% and extn. times of 30, 30, 30, 30, 8, 0.02, and 4 min., the VII was 93.96, 90.83, 80, 81.5, 89.5, and 88.5%; the % OH was 93.96, 90.83, 80, 81.5, 89.5, and and 11.40; and the % OMe 14.1, 14.7, 15.29, 14.4, and 14.40; and the % OMe 14.1, 14.7, 15.29, 14.4, and 14.40; and the % of X prod. from 1% of X prid. 3 times from AcOH 15%, of X prod. from 1% NaOH soln, 17%, and of X treated with 5% H.SC., 13%.

LONKIN A.A.

The Committee on Stalin Prizes (of the Council of Ministers USSR) in the fields of science and inventions announces that the following scientific works, popular scientific books, and textbooks have been submitted for competition for Stalin Prizes for the years 1952 and 1953. (Sovetskaya Multure, Moscow, No. 22-40, 20 Feb - 3 Apr 1954)

Name

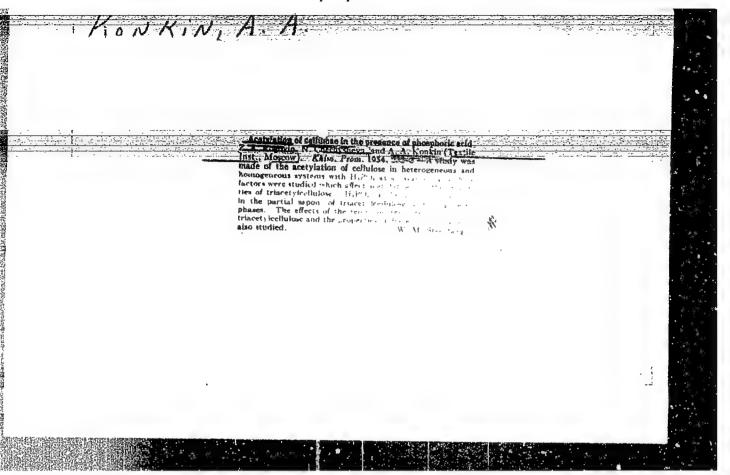
Title of Work

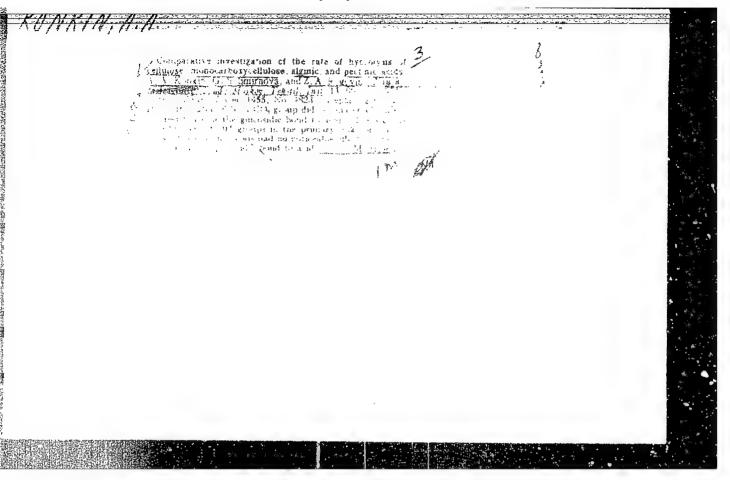
Nominated by

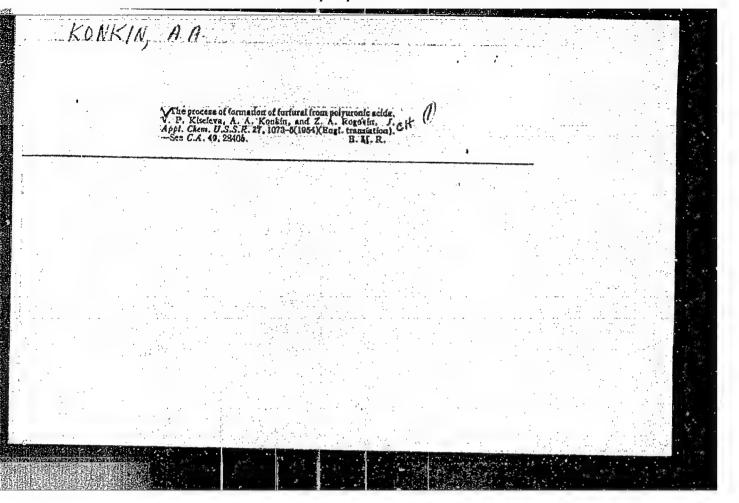
Rogovin Z.A. Shorygina, N.N. Konkin, A.A. "Chemistry of Cellulose and Associated Compounds"

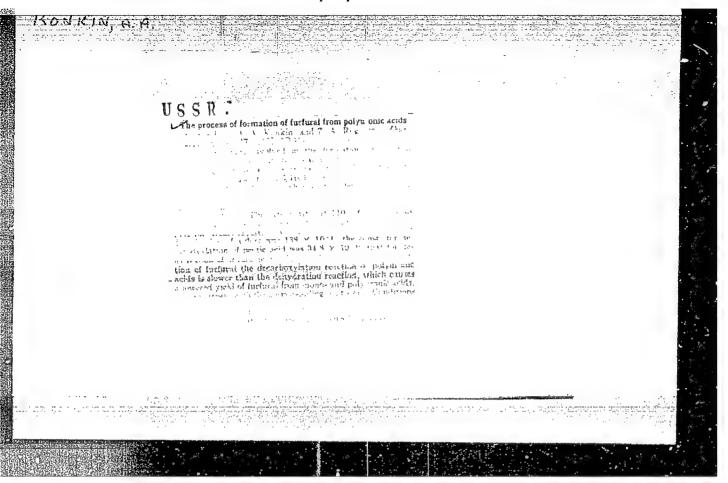
Moscow Textile Institute

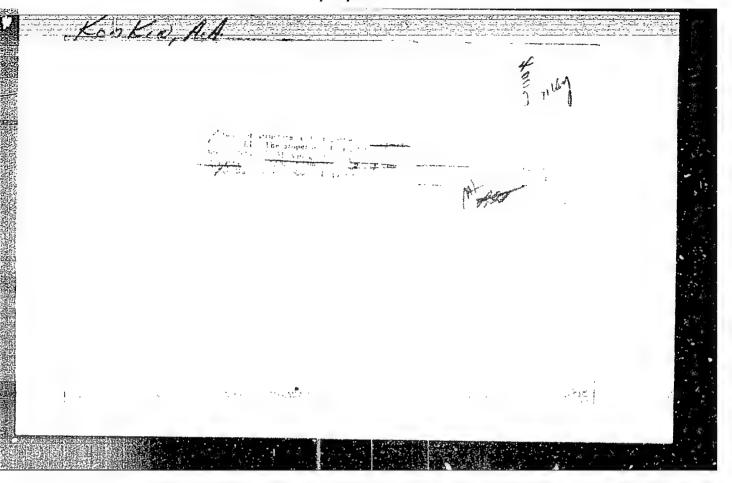
80: W-30604, 7 July 1954

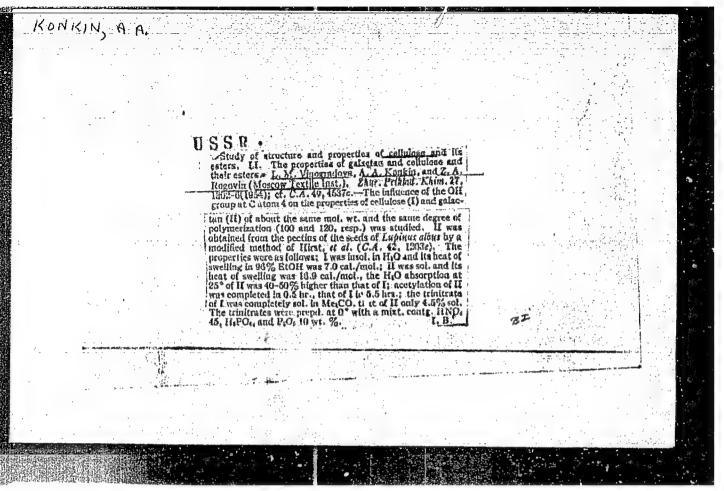


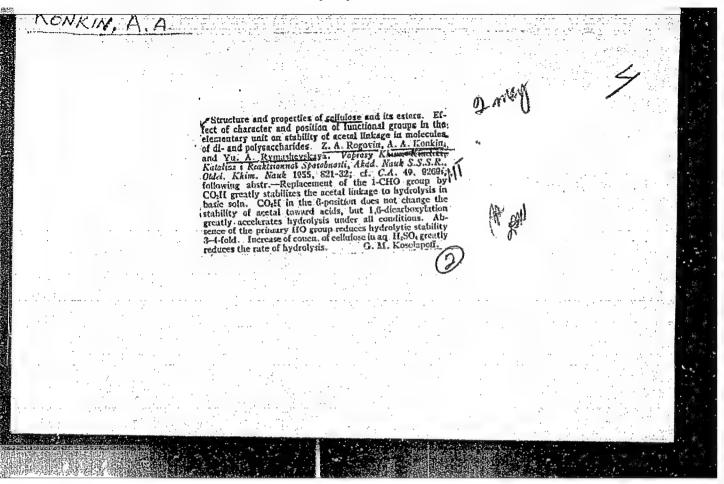


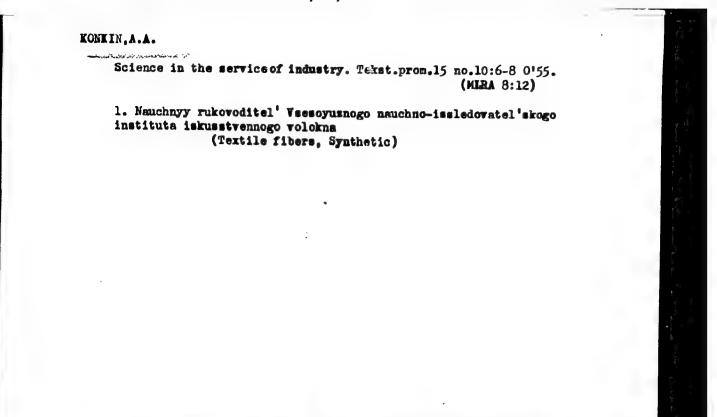


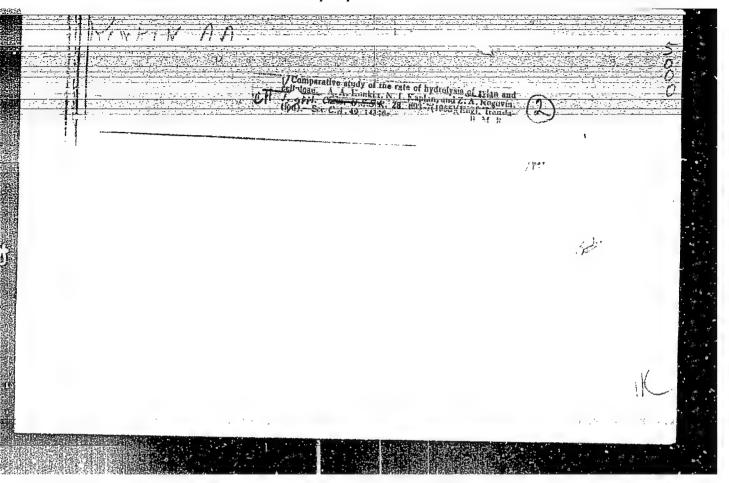












KONKIN, A.A.

USSR/Chemical Technology - Chemical Products and Their Application. Wood Chemistry Products. Cellulose and Its Manufacture. Paper, I-23

Abst Journal: Referet Zimr - Khimi, a, No 19, 1956, 63349

Author: Konkin, A. A., Kaplan, N. I., Rogovin, Z. A.

Institution: None Moscow TexTILE INST. Chair of PRTIFICIAL FIBERS

Title: Comparative Investigations of the Rate of Hydrolysis of Kylan and Cellulose

Original

Periodical: Zh. prikl. khimii, 1955, 28, No 7, 729-734

Abstract: Rate of xylan hydrolysis in a homogeneous medium is about 4 times and in a heterogeneous medium 70 times higher than that of cellulose. The principal factor that determines the higher rate of xylan hydrolysis, as compared with cellulose in a heterogeneous medium is not the composition of the elemental units but the different physical structure of these polysaccharides which determines the difference in intensity of intermolecular interaction.

Card 1/1

Konkin, A.A.

USGR/Chemical Tachnology. Chemical Products and Their Application--Synthetic fibers. I-26

Abs Jour: Ref Zhur-Khimiye, No 3, 1957, 10084

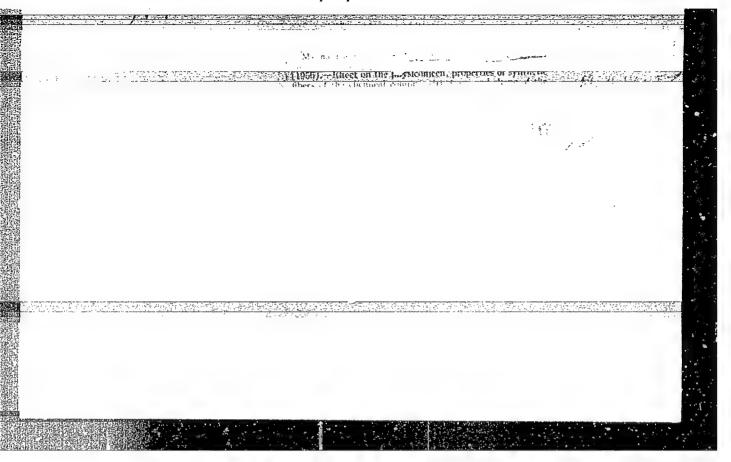
Author : Konkin, A. A. and Kudryavtsev, G. I. Inst : Not given

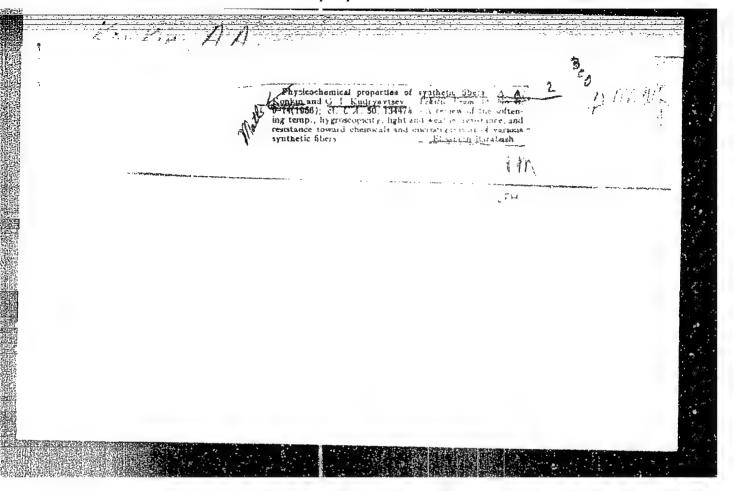
Titlc The Physicochemical Properties of Synthetic Fibers

Orig Pub: Tekstil'n. prom-st, 1955; No 8, 9-14

Abstract: A survey with a bibliography covering 7 items.

Card 1/1





MESMEYANOV, A.M.; KHUNYANTS, I.L.; SHENTAKIN, N.M.; BOOGS LOWSKIT, B.M.;
SKURATOV, S.M.; LORGIE, A.A.; DEREVITSKAYA, V.A.; ROGOVIN, E.

In memory of A.A. Strepikheev; obityary, Ehur.ob.khim.26 no.1113224—
3226 H *56. (MCPA 10:1)

(Strepikheev, Aleksandr Aleksandrovich, 1912-1955)

PAKSHVAR, A.B., doktor tekhn.nauk, red.; KOHKIN, A.A., doktor tekhn.nauk, red.; KUKIN, G.H., doktor tekhn.nauk, red.; GUSZVA, Ye.M., red.; MEDVEDEV, L.Ya., tekhn.red.; KOGAN, V.V., tekhn.red.

[Handbook of analytical control in the manufacturing of artificial and synthetic fibers] Spravochnik po analiticheskomu kontroliu v proizvodatve iskusstvennykh i sinteticheskikh volokon. Moskva, Gos. nauchno-tekhn.izd-vo lit-ry pe legkoi promyshl., 1957. 565 p.

(MIRA 11:2)

(Textile industry-Quality control)

KONKIN, A. A. Doc Tech Sci -- (disc) "Research on the relative stability of scotate bond.

Connection in collulore and so other polysaccharides under the action of hydrolyzing researchs" Nos, 1977. 28 pp/21 cm. (Kin/Hiffher I'd USCR. Mos Tevtile Institute),

120 copies

(KL, 20-27, 83)

KONKIN, A.A.; KOTINA, V.Ye.; DEMINA, N.V.

Effect of the scale factor on the properties of man-made fibers,
Teket. prom. 17 no.8:20-23 Ag *57. (MIRA 10:9)

(Textile fibers, Synthetic--Testing)

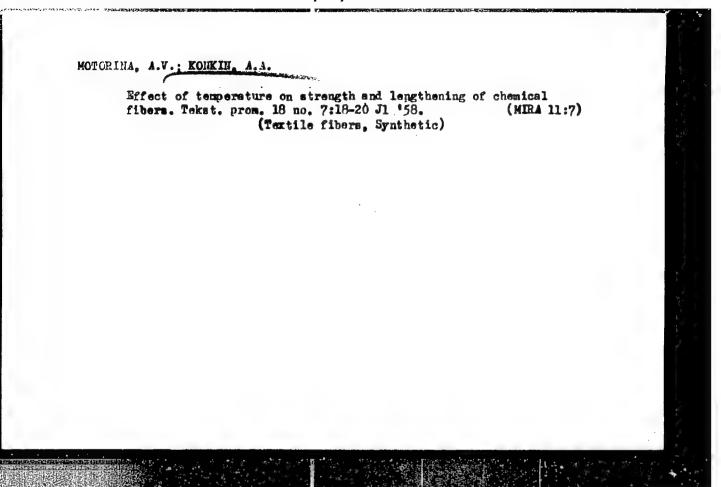
"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310005-8 KENKIN, A. A. KONKIN A.A. kand. tekhn. nauk; PETUKHOV, B.V., kand. tekhn. nauk. Production of dacron fibers in the U.S.S.R. Tekst. prom. 18 no.1: (MIRA 11:2) 15-16 Ja '58. (Textile fibers, Synthetic)

FINKEL'SHTEYN, T.A.; NIKOLATEVA, N.S.; KONOVALOVA, Te.M.; KONKIN, A.A.

VERETENNIKOVA, T.P.

Gellulose grinding on a vibratory mill. Tekst. prom. 18 no.2:16-19

F '58. (Cellulose)



Xanthogenation of the cellulose preparations. Zhur.prikl. khim.
31 no.3:459-465 Mr '58. (MIRA 11:4)
(Cellulose xanthates)

76-32-4-26/43

AUTHORS:

Konkin, A. A., Shigorin, D. N., Novikova, L. I.

TITLE:

The Infrared Absorption Spectra of Monosaccharides and

Polysaccharides (Infrakrasnyye spektry pogloshcheniya mono- i

polisakharidov)

PERIODICAL:

Zhurnal Fizicheskoy Khimii, 1958, Vol. 32, Nr 4,

pp. 894 - 903 (USSR)

ABSTRACT:

As an introduction the present paper explains the possibilities of the types of hydrogen bindings in mono- and polysaccharides and mentiones two basic types. It is pointed out that the investigations carried out hitherto by means of infrared

spectroscopy for the purpose of determining the types of hydrogen binding by observing the position and diffusion of spectral bands of the OH-group of polysaccharides are insufficient. The present experiments deal with the investigations of mono- and polysaccharides as well as of polyatomic alcohols, with comparisons of the spectra being carried out to solve the problem

Card 1/3

of the function of the absorption spectrum of the hydroxyl

76-32-4-26/43

The Infrared Absorption Spectra of Monosaccharides and Polysaccharides

groups on their geometrical distribution within the molecule. The measurements were carried out by means of a NKC-11 spectrometer with a Nernst rod as source of radiation; the results obtained are shown on tables and graphically as well. Among other it was observed that in d-glucoses and d-xyloses both types of hydrogen binding are existing (I. -O-HO-H...O-H and II. -O-H...O-H). The spectrum of d-galactosis shows two strong low-frequency bands 3120 and 3206 cm-1 which points at the presence of a greater number of bindings of type I. In the rest of the monosaccharides, on the other hand, also characteristic phenomena were observed, the explanation of which needs detailed structural investigations. The investigations of polyatomic alcohols showed that, for instance, a difference between mannite and xylite consists of the fact that the latter has more bindings of type I. Based on the spectral analyses of polysaccharides the energies of hydrogen bindings were determined and a closer classification of the relative intensity of intermolecular interactions was carried out. The energy changed

Card 2/3

76-32-4-26/43

The Infrared Absorption Spectra of Monosaccharides and Polysaccharides

4 - 6 kcal., the highest value having been obtained with cellulose. As final conclusion the change of energy of

the intermolecular interaction is given as follows: cellulose amylosis xylan laminarine galactan. There are 6 figures, 2 tables and 12 references, 5 of which are Soviet.

SUBMITTED:

January 8, 1957

AVAILABLE:

Library of Congress

1. Monosaccharides--Spectrographic analysis 2. Polysaccharides -- Spectrographic analysis 3. Polyatomic alcohols-- Spectrographic analysis 4. Infrared spectroscopy--Applications

Card 3/3

KONKIN, A.A.; BIRGER, G.Ye.; GRUZDEV, V.A.; PAKSHVER, A.B.; TSVETKOVA, H.F., red.; SHPAK, Ye.G., tekhn.red.

[Synthetic fibers] Khimicheskie volokna. Moskva, Gos.nauchnotekhn.imd-vo khim.lit-ry, 1959. 50 p. (MIRA 13:2)

1. Vsesoyuznyy nauchno-issledovatel skiy institut iskusstvennogo volokna.

(Textile fibers, Synthetic)

Madenia nauk SEE. Lastint amendany intermetric SOV/405 Abadenia nauk SEE. Lastint amendany intermetric Dinichestym procyalacnost; SSE (The Checkel Industry of the ISEE) Bessor, doublistate, 1599. Ayr p. Ernts ally inserted. 4,100 copies sprined. Sprined. S. Bomm; Bed. Ed. F. V. Populin; Editorial Beach d. P. Vinopridor, S. V. Val'forded, H. M. Ernerokovy, K. L. Tanory, T. G. Kimeler, T. A. Enachments, B. De. Rubenia Girls Ed.), and A. V. Populiny. Flacturing (Editorial Sprine No.), S. S. Bedredey, B. D. Bellini, A. E. Flacturing Intermet to the general resist in the general of the chemical latentry. COURAGE Editorial Industry. Amendal District chemical Industry. Amendal District of the Sprine No.	The manufactor, Annual the designment of the proposed are; 1) the use of new manufacture of chesical problems; discussed are; 1) the use of new manufacture of chesical problems; discussed are; 1) the use of new problems of contract rows matural as protection of contract rows matural as protection of contract rows matural as protection of contracts of the problems; and others; 2) the of with changed and others; 2) the search of the properties of the problems; and others; 3) the search of the problems of contracts and others; 3) the production of contracts from manufacts are matural and performs of contracts; 3) the search of the search of the problems; 4) the production of contracts; 4) the problems; 5 the search of the s	Orthorn M. T. The Plantice and Sputiatio Section Industry	Action of the Control	-	Marchey, A.L. The Antition Die Labuatry Dieritable, A.A. The Production of Leanues and March		parator, G.L. and V.L. Cremion. Gentytic Pronous in	1	AVAILABLE: Library of Congress	The second secon
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SERKOVA, A.T.; KONKIN, A.A.; KOTOMINA, I.N.

Preparation of extra-strong viscose cord. Khim.volok. no.1: 15-21 159. (MIRA 12:8)

1. Vsesoyuznyy nauchno-issledovatel skiy institut iskusstven-nugo volokna.

(Rayon)

MANDEL BAUM, D.I.; KONKIN, A.A.

Effect of the polydisperse state of cellulose on the physical and mechanical properties of viscose fibers. Report No.1.

Ehim. volok. nc.1:22-26 59. (MIRA 12:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo volokna. (Cellulose) (Rayon)

SHUKALOVA, Yo.A.; KONKIN, A.A.

Kinetics of emprasmonium fiber swelling in water. Izv.vys.ucheb. zav.; tekh.tekst.prom. no.1:141-147 *59. (MIRA 12:6)

1. Moskovekiy tekstil'nyy institut.
(Rayon--Testing) (Textile chemistry)

PETUKHOV. B.V.; KONKIN, A.A.

Technology of the manufacture of the polyester fiber "lavear".

Khim. volok. no.2:11-16 *59. (MIRA 12:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo volokna.

(Rayon)

MANDEL BAUM, D.I.; KONKIN, A.A.; SHULYATIKOVA, N.V. Effect of polydisperse state of cellulose on the physical

and mechanical properties of viscose fiber. Fart 2.

Khim. volok. no.2:35-40 59. (MI (MIRA 12:9)

l. Vsesoyusnyy nauchno-issledovatel skiy institut iskusstvennogo volokna.
(Cellulose) (Rayon)

VIVIE all down - down

MANDEL BAUM, D.I.: KONKIN, A.A.

Hffect of the natural structure of cellulose on the physical and mechanical properties of viscose fiber. Khim.volok. no.3:23-26 [MIRA 12:11]

1. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo volokna (VNIIV).

(Cellulose) (Rayon)

ARKHANGEL'SKIY, D.H.; ROGOVIN, Z.A.; KOHKIH, A.A.

Effect of the concentration and nature of the acids and sulfates used on the speed of saponification of cellulose xanthate. Phim.volok. no.4:23-26 *59. (MIRA 13:2)

1. Vsesoyusnyy nauchno-issledovatel'skiy institut iskusstvennogo volokna i Moskovskiy tekstil'nyy institut.
(Cellulose xanthate)

SERKOV, A.T.; KOHKIN, A.A.; KOTOMINA, I.W.; SHUBINA, Ye.V.

Surface phenomena occurring in the system viscose - spinneret precipitation bath. Khim.volok. no.5:31-33 '59. (MIRA 13:4)

1. Vsesoyusnyy nauchno-issledovatel'skiy institut iskusstvennogo
volokna (VNIIV).

(Viscose) (Rayon) (Surface chemistry)

ARKHANGEL'SKIY, D.N.; ROGOVIN, Z.A.; KONKIN, A.A.

Effect of the composition of the percipitation baths on the swelling of viscose fiber. This.volok. no.5:36-38 159.
(MIRA 13:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo volokna (VHIIV) i Moskcvskiy tekstil'nyy institut (MTI).

(Viscose) (Rayon)

15(4)

AUTHORS:

Serkov, A. T., Shevchenko, A. S.,

5/183/59/000/06/002/027

B004/B007

Kotomina, I. N., Konkin, A. A.

TITLE :

The Application of Surface-active Substances in the Production

of Viscose Fibera

PERIODICAL:

Khimicheskiy volokna, 1959, Nr 6, pp 3-11 (USSR)

ABSTRACT:

The present paper is based mainly on Western publications, the data of which have, in some cases, been checked by the authors! own experiments. The quality-improving effect produced by surface-active substances is pointed out (increase in the strength of viscose-cord by 50-70%). The conception of a surface-active substance (modifier) is defined and its mode of operation is explained, There follows a survey of the application of such modifiers in the mercerization, xanthogenation, and spinning of viscose-solutions. Mention is made of the investigation carried out by Ye. M. Lev of the emulsification of carbon disulphide by sebacic acids (Fig 1), where the most stable emulaion is obtained by means of sebacic acids with 5 to 7 C-atoms. Figures ? and 3 show the effect of Berol visco 30 upon the rate of filtration and the clearness of the viscose. Table 1 in this connection gives the results obtained by E. Bloed, H. Rauch

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The Application of Surface-active Substances in the From 5/183/59/000/06/002/027 duction of Viscose Fibers 5/183/59/000/06/002/027

and K. Goetze (Ref 1). The influence exerted by the modifiers upon the elimination of air from the viscose is discussed. Oxyethylated aliphatic amines give less stable foam than sulphurized sebacic acids and oxyethylized alcohols. Tables 2 and 3 mention Western results (Refs !, 2) concerning the necessary additions of modifiers and their effect upon keeping the spinnerets clean. Figures 4 to 7 show the effect of the concentration of H2SO4. ZnSO4, Na2SO4, and of modifiers upon the adhesion of the viscose to the spinnerets according to reference it, which was confirmed by experiments carried out by the authors. Table 4 shows various modifiers of Western origin (amines, quaternary ammonium compounds; polyoxyothyl derivatives), which are used for the purpose of obtaining strong viscose fibers. Table 5, figure 8 show the experimental results obtained by the authors, according to which amines with ? to 9 C-atoms give particularly homogeneous fibers which swall only little in water. Table 6 shows the effect produced by the oxyethyl-group content of the modifier upon the properties of the fiber (Ref 16).

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The Application of Surface-active Substances in S/183/59/000/06/002/027 the Production of Viscose Fibers S/183/59/000/06/002/027

Table 7 and figure 9 show the dependence of the effect produced by cyclopropane on the concentration of the coagulating bath (Ref 16). There are 9 figures, 7 tables, and 18 references, 6 of which are Soviet.

ASSOCIATION: VNIIV - Vsesoyuznyy nauchno-issledovatel'skiy institut

iskusstvennogo volokna

(All-Union Scientific Research Institute for Synthetic Fibers)

Card 3/3

15(4) AUTHORS:

Sych, L. S., Kozlov, V. I., Petukhov, B. V.,

5/183/59/000/06/003/027

B004/B007

TITLE:

The Utilization of Polymer-waste of the Production of Lavsan

Fiber

PERIODICAL:

Khimicheskiy volokna, 1959, Nr 6, pp 12-14 (USSR)

Konkin, A.

ABSTRACT:

Among the waste in the production of the Lavsan fiber, a polyester fiber, the hanks of the godet wheels may be utilized without any special chemical treatment. They are disentangled on a device shown in figure 1, cut up into rayon fiber, and are used as filling medium for upholstered goods and winter clothing. The larger part of the wasts (resinified polymer, waste products of the spinnerets, torn fibers) must, however, be decomposed to the initial product (dimethyl-terephthalate). The authors mention respective English patents (Refs 1, 2) and also their attempts at decomposing the polymer by hydrolysis in water or lye and by means of methanol. In water (7

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parts by weight corresponding to one part by weight of polymer)

The Utilization of Polymer-waste of the Production S/183/59/000/06/003/027 of Lavsan Fiber B004/B007

decomposition takes place at 20 to 25 atm within an hour, at 15 atm within 5 hours. The precipitated terephthalic acid is filtered off, dissolved and reprecipitated, and again methylated. In 5 to 7% NaOH (7-to 8 parts by weight corresponding to 1 part by weight polymer) decomposition at 9 to 10 atm takes place within 1 to 2 hours (Table 1) . The quantity of re-obtained terephthalate depends on the shape and the size of the waste products. Decomposition by means of methanol is aspecially recommended, because methanol is a waste product of Laysan production, directly forms dimethyl terephthalate, and therefore requires no further chemicals (Table 2). The dimethyl terephthalate yield depends on the molecular weight of the polymer (Fig 4) and on the catalyst used in its synthesis (potassiumantimonyl tartrate, calcium acetate, zinc acetate, figure 3). The authors recommend 2 to 3 parts by weight of methanol corresponding to 1 part by weight of polymer, 26 to 27 atm, duration of reaction 3 to 6 h. There are 4 figures, 2 tables, and 2 references.

Card 2/3

KONKIN, A.A.: ROGOVIN, Z.A.

Role of molecular interaction in the hydrolysis of polysaccharides in a heterogeneous medium. Vysokom.soed. 1 no.2:177-181 [59. (NIRA 12:10)]

1. Vsesoyuznyy nauchno-issledovatel skiy institut iskusstvennogo volokna.

(Polysaccharides) (Hydrolysis)

EUYAROVA, V.K.; KORKIN, A.A.

Rate of oxidation of polysaccharides in a homogeneous medium, yesokom. soed. 1 no.6:889-893 Je '59. (MIRA 12:10)

1.Vsesoyusnyy nauchno-issledovatel'skiy institut iskusstvennoge volokna.

(Polysacchardies) (Oxidation)

MOTORINA, A.V.; KONKIN, A.A.

Effect of the medium on modifications in the mechanical properties of synthetic fibers during thermal treatment. Tekst. prom. 19 no.6: 52-55 Je '59. (MIRA 12:9) (Textile fibers, Synthetic)

5(3)

SOV/80-32-4-26/47

AUTHORS:

Konkin, A.A. and Rogovin, Z.A.

TITLE:

The Principal Regularities in the Hydrolysis of Polysaccharides in Homogeneous and Heterogeneous Media (Osnovnyye zakonomernosti gidroliza polisakharidov v gomogennoy i geterogennoy sredakh)

PERIODICAL:

Zhurnal prikladnoy khimii, 1959, Vol 32, Nr 4, pp 852-857 (USSR)

ABSTRACT:

The present paper represents the 73rd communication from the series of investigations into the structure and properties of cellulose, and the 12th communication from the series of investigations into the process of hydrolysis of polysaccharides. The authors discuss certain general regularities in the hydrolysis of polysaccharides in homogeneous and heterogeneous media and cite data on the correlation of hydrolysis rates of polysaccharides, the data on the correlation of hydrolysis rates of polysaccharides, and "monozid"s under various conditions in a table. The conclusions drawn by the authors from their own experiments and from literature data are as follows: 1. The acetal bonds of polysaccharides differ insignificantly in resistance to the action of hydrolyzing agents. As far as relative resistance of acetal bonds to the action of acids is concerned, the polysaccharides can

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SOV/80-32-4-26/47

The Principal Regularities in the Hydrolysis of Polysaccharides in Homogeneous and

be arranged in the following series of decreasing resistance: chitin> cellulose) galactan > mannan > laminarin > xylan > amylose; 2. The resistance of acetal bonds with respect to the action of hydrolyzing agents does not depend, as a rule, on a degree of polymerization of polysaccharides; 3. The hydrolysis rate of polysaccharides in a heterogeneous medium is determined by their physical structure which, in its turn, depends on the peculiarities in the structure and composition of macromolecules. According to the relative rate of hydrolysis in a heterogeneous medium, the polysaccharides can be arranged in the following sequence: galactanylaminarinyxylanyamyloseymannanycellulosey

Card 2/3

There is 1 table and 11 references, 9 of which are Soviet, 1 English

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000824310005-8

SOV/80/32-4-26/47

The Principal Regularities in the Hydrolysis of Polysaccharides in Homogeneous and Heterogeneous Media

ASSOCIATION:

Vsesoyuznyy nauchno-issledovatel skiy institut iskusstvennogo volokna (All-Union Scientific Research Institute of Synthetic Fiber)

SUBMITTED:

December 27, 1957

Card 3/3

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000824310005-8

5(3,4) Sov/80-32-5-26/52

AUTHORS: Konkin, A.A., Shukalova, Ye.A.

TITLE: On the Role of Diffusion in the Hydrolysis of Polysaccharides in an

Heterogeneous Medium. Communication 13.

PERIODICAL: Zhurnal prikladnov khimii, 1959, Vol 32, Nr 5, pp 1076-1080 (USSR)

ABSTRACT: The study of diffusion processes has a great significance for the

hydrolysis of polysaccharides by weak solutions of acids. The energy of activation of the hydrolytic reaction found by the authors has the value of 26-30 kcal/mole which is characteristic for chemical processes. The chemical reaction rate increases faster with the temperature than the diffusion rate. The activation energy is nearly the same for polysaccharides in a homogeneous or a heterogeneous medium and for monosides and disaccharides in a homogeneous medium. The energy is therefore independent of the molecular weight, the composition, the structure of the elementary link and of the macromolecule. The activation energy in the hydrolysis of polysaccharides arises from the rupture of the acetal bond. The diffusion of water into

from the rupture of the acetal bond. The diffusion of water into cellulose was studied in viscose monofiber of 400-800 \mu in diameter.

Card 1/2 Diffusion was determined by the degree of swelling, which was in-

SOV/80-32-5-26/52

On the Role of Diffusion in the Hydrolysis of Polysaccharides in an Heterogeneous Medium. Communication 13.

> vestigated at 17, 27 and 37°C. The energy of activation was determined by the graphic method as 7,800 cal/mole. This value is considerably below that of the hydrolysis of the acetal bond. The diffusion of the hydrolyzing agent has no effect on the reaction rate of the hydrolysis of polysaccharides. Sharkov has shown that the rate of hydrolysis of cellulose does not depend on the duration of the preliminary soaking in diluted acid.

There are: 5 tables, 1 set of graphs and 7 references, 6 of which are Soviet and 1 English.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel skiy institut iskusstvennogo volokna (All-Union Scientific Research Institute of Artificial Fiber)

SUBMITTED:

December 31, 1957

Card 2/2

CIA-RDP86-00513R000824310005-8

5(3)

SOV/80-32-5-27/52

AUTHORS4:

Novikova, L.I., Konkin, A.A.

TIPLE:

The Effect of the Concentration of Acids on the Rate of the Hydrolysis of Polysaccharides. Communication 14.

PERIODICAL:

Zhurnal prikladnov khimii, 1959, Vol 32, Nr 5, pp 1081-1085 (USSR)

ABSTRACT

The acetal bond in low- and high-molecular compounds is resistant to the action of water. Its rupture is accelerated by catalysts, like acids, the activity of which is determined by their degree of dissociation. Zheltukhin, Korol'kov and Sharkov found that the rate of hydrolysis is proportional to the concentration of the acid /Ref 4/. The hydrolysis of cellobiose, cellulose, laminarin obtained from Laminaria Saccharina, and tylan prepared from straw according to konkin's and Rogovin's method /Ref 8/ is investigated here. Sulfuric acid of the concentration 15.77 - 50.98%, and hydrochloric acid of 7.04 - 22.4% were used as hydrolyzing reagents. The rate of hydrolysis of cellobiose increases faster than the concentration of the acids. A doubled concentration increase raises the hydrolysis rate 10 times, in laminarin even 15 times. A three-fold increase of the hydrochloric acid concentration increases the hydrolysis rate of xylan 40 times. The

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CIA-RDP86-00513R000824310005-8

5(3)

SOV/80-32-5-47/52

AUTHORS:

Petukhov, B.V., Konkin, A.A.

TITLE:

The Combination of the Reactions of Reesterification and Polycondensation in the Synthesis of Polyethyleneterephthalate

PERIODICAL:

Zhurnal prikladnoy khimii, 1959, Vol 32, Nr 5, pp 1171-1173 (USSR)

ABSTRACT:

Polyethyleneterephthalate is the base of the polyester fiber "lavsan". It is produced by the reesterification of the dimethyl ether of the terephthalic acid and ethylene glycol to diglycol ether, and the polycondensation of the latter to polyethyleneterephthalate. Ethylene glycol is used in the quantity of more than two moles per one mole of diethyl ether. Experiments were made to use less than two moles in the reaction. For this purpose 0.05% of zinc acetate was used as a catalyst. The yield was approximately the same as in the ratio 2.5: 1. The products obtained had a sufficiently high molecular weight, which could not be expected, if the unreacted methoxy-groups had blocked the ends of the chain. The formed ethyleneglycol remains in the sphere of reaction due to the increasing viscosity and the ratio may be therefore

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less than 2:1.

CIA-RDP86-00513R000824310005-8

SOV/80-32-5-47/52

The Combination of the Reactions of Reesterification and Polycondensation in the Synthesis of Polyethyleneterephthalate

There are: 1 diagram, 1 graph, 1 table and 2 references, 1 of which is Scylet and 1 English.

ASSOCIATION:

Vsesoyuznyy nauchno-issledovatel skiy institut iskusstvennogo volokna

(All-Union Scientific Research Institute of Artificial Fiber)

SUBMITTED:

January 20, 1958

Card 2/2

CIA-RDP86-00513R000824310005-8

KonKIN, A.A.

15.5550

\$/183/60/000/03/04/007 : 3020/8054

AUTHORS:

Geller, A. A., Konkin, A. A., Myagkov, V. A.

TITLE:

Fractional Composition of Polyethylene Terephthalate

PERIODICAL: Khimicheskiye volokna, 1960, No. 3, pp. 10-12

TEXT: It is known that not only the mean molecular weight of the polymer but also its polydispersity exert an influence on the properties of artificial fibers. The greater the inhomogeneity of the polymer with respect to the molecular weight, the more irregular are the physico-mechanical properties of the fiber obtained. Polyester formation and determination of polydispersity of various polyesters was investigated by V. V. Korshak and co-workers. Papers by E. Turska-Kusmierz, T. Skuarski (Refs. 4, 5), and F. Rybnikář (Ref. 6) were concerned with the study of the composition of polyethylene fractions. In the present investigation, the authors studied the change in polydispersity of a polyester resin in polycondensation and repeated melting. The type of change in the composition of polyethylene terephthalate fractions was investigated by the authors under consideration of

Card 1/3

Fractional Composition of Polyethylene Terephthalate

5/183/60/000/03/04/007 B020/B054

conditions of the technological process which was conducted on a semiindustrial scale. This process was briefly described in the paper by B. V. Petukhov and A. A. Konkin (Ref. 9). A method of fractionating polyethylene terephthalate from 1% solutions in a phenol - chloro-benzene mixture (1:1) by means of benzine precipitation was studied. The character of the position of the differential distribution curves (Fig. 1) for two parallel experiments shows a fully satisfactory reproducibility of the results obtained in fractionating. The polyester resin Lavsanvis produced via two basic stages - trans-esterification and polycondensation. Data on the polymer composition in the individual reaction stages are graphically shown in Figs. 2 and 3 under consideration of the change in polydispersity and chain growth in polycondensation of Lavsan. The content of low-molecular fractions in the individual resin samples of Lavsan is shown in the table. The differential distribution curves of the molecular weight of the resin before and after repeated melting are shown in Fig. 4. The character of the differential curves shows that the molecular weight of polyethylene terephthalate slightly decreases in repeated melting. The polydispersity of the resin changes only little. Besides, the authors found a distinct tendency to an increase

Card 2/3

CIA-RDP86-00513R000824310005-8"

S/183/60/000/003/011/016/XX B004/B067

AUTHORS:

Serkov, A. T., Konkin, A. A., Solov'yeva, N. I., ard

TITLE:

Study of Drawing in Spinning Viscose Fibers

PERIODICAL:

Khimicheskiye volokna, 1960, No. 3, pp. 31-33

TEXT: The authors point to the great importance of plasticizing drawing to the strength of viscose fibers. They attempted to determine the conditions under which maximum drawing can be attained. In the present paper they describe their study of the effect of the $\gamma_{\rm CS_2}$ content of residual

xanthogenate in the fiber, and its structure in the freshly spun state on the capability of being drawn. The effect of residual xanthogenate was studied by increasing the distance between the spinneret and the point where drawing sets in from 1 to 15 m. In this connection, $\gamma_{\rm CS}$ decreased

from 11.0 to 6.0. Nevertheless, no changes were observed in the maximum drawing and in the mechanical properties of the fiber. In a second test Card 1/2

KONKIN, A.A.; RYMASHEVSKAYA, Yu.A.; SHULYATIKOVA, N.V.

Chemical heterogeneity of cellulose manthates. Khim.volok. no.4: 23-26 '60. (MIRA:13:10)

1. Vsesoyuznyy nauchno-issledovateliskiy institut iskusstvennogo volokha.

(Cellulose xanthate)

S/183/60/000/004/009/014/XX B004/B075

AUTHORS:

Shevohenko, A. S., Konkin, A. A., Serkov, A. T.

TITLE:

Effect of Amines on the Spinning Process of Viscose Fiber

PERIODICAL:

Card 1/3

Khimicheskiye volokna, 1960, No. 4, pp.27-30

TEXT: In the introduction the authors state that the effect of various modifiers which are added to the viscose to improve the structure of the fiber has so far not been studied. Therefore, they attempted to study the effect of amines on the formation of the viscose fiber. They used 1) monomanines, i.e., a) a mixture of C₇-C₉ amines, b) a mixture of C₁₃-C₁₅ amines, c) cyclohexylamine, and d) monoethanolamine; 2) secondary amines: diethylamine; 3) tertiary amines: triethylamine, and 4) polyamines: a) diethylene triamine, b) triethylene tetramine. They studied the effect of these amines on the ripening of viscose, the degree γ of esterification of the xanthate, viscosity, and the decomposition rate of xanthate in the precipitating bath. All experiments were made with the same viscose: content of α-cellulose: 6.3%, alkali 6.3%, degree of ripening 9.5-10.5, admixture of 2% amine referred to α-cellulose. Composition of the precipitating bath 100 g/l H₂SO₄?

Effect of Amines on the Spinning Process of S/183/60/000/004/009/014/XX Viscose Fiber S/183/60/000/004/009/014/XX

100 g/l $ZnSO_4$, 240-260 g/l Na_2SO_A , temperature 45°C. Neutralization was made in a second bath with $60\ \mathrm{g/1}\ \mathrm{NaHCO_3}$ and $200\ \mathrm{g/1}\ \mathrm{Na_2SO_4}$. The xanthate content in the fiber and its swelling power were then determined by the known method of Ref. 5, and the structure of its cross section was studied. The following results were obtained: diethylamine and monoethanolamine exerted no or almost no influence on the precipitation process. Cyclohexylamine, diethylenetriamine, and triethylene tetraamine proved to be effective modifiers. They delayed the precipitation process so that the fiber contained by 2.5 to 3 times more xanthate. The cross section of the fiber was homogeneous, its swelling power was reduced from 130-135% to 80-85%. The effect of cyclohexylamine was examined in the pilot plant by means of a spinning frame of type TH-300-NB (PN-300-IZ). A rayon cord fiber with a 34-36 km breaking length was obtained. Hence cyclohexylamine was recommended as modifier in spinning viscose fiber. The surface tension of viscose was not influenced by amines. No chemical interaction has as yet been observed between amines and xanthate. The authors, however, assume the action of trithiocarbonates since in their absence cyclohexylamine does not essentially influence the decomposition of xanthate. There are 10 figures, 1 table, and 7 references: 3 Soviet, 6 US, 2 Austrian, 1 Belgian. 5 British, 2 French, 1 German, and 1 Swiss.

MANDEL'BAUM, D.I.; KONKIN, A.A.; VISHNYAKOVA, M.N.

Connection between the submicroscopic structure of natural and regenerated cellulose. Khim.volok. no.5:31-33 60. (MIRA 13:12)

1. Vsesoyusnyy nauchno-issledovatel'skiy institut iskusstvennogo volokna (for Mandel'baum, Konkin). 2. Leningradskiy tekstil'nyy institut imeni Kirova (for Vishnyakova).

(Cellulose) (Viscose)

MAYTEL', B.B. [Mithel, B.B.]; SEKSTON, U.R. [Saxton, W.R.]; MORGAN Drh.Ye.
[Morgan, J.E.]; NITTEMP, Drh. [Witkamp, J.]; MATVEYEVA, Ye.I.
[translator]; KONKIN. A.A.; red.

Spinning of high-tenacity rayon from 100 per cent wood pulp. Khim.
volok. no.5:71-77 '60.

(Rayon) (Woodpulp)

(MIRA 13:12)

SHEVCHENKO, A.S.; KONKIN, A.A.; SERKOV, A.T.

Effect of hydroxyethylated amines on the process of spinning viscose fiber. Khim. volok. no. 6:28-30 '60. (MIRA 13:12)

1. Vsesoyuznyy nauchno-issledovateliskiy institut iskusstvennogo volokna.

(Rayon spinning) (Ani

(Anines)

KONKIN, Alekaandr Arsen yavich; BIRGER, Georgiy Yefimovich; KAPLUNOV, A.S., red.; SAVCHEMKO, Ye.V., tekhn.red.

[Miracle fibers] Chudesnye volokna. Moskva, Isd-vo "Enanie," 1961. 43 p. (Vsesoiusnoe obshchestvo po rasprostraneniiu politicheskikh i nauchnykh snenii. Ser.10. Molodeshnaia, no.5).
(MIRA 14:3)

(Textile fibers, Synthetic)

s/183/61/000/001/002/006 B101/B205

AUTHORS: Konkin, A. A., Rogovina, A. A., Birger, G. Ye.

TITLE: Present stage and prospects of tire cord production

PERIODICAL: Khimicheskiye volokna, no. 1, 1961, 3-14

TEXT: This is a review of publications on the production of tire cord, which bases primarily on Western literature. In the Soviet Union, tire cord is produced from cotton, viscose and caprone fibers. As the Seven-year Plan (1959-1965) provides for a substantial increase of the production of viscose cord (2.8 times) and caprone cord (22 times), 91% of all tire cord will be made from synthetic fibers in 1965. The review is divided into five sections: 1) Achievements in the field of viscose and polyamide cord production. This section bases chiefly on Western literature. 2) Physicomechanical properties of viscose, caprone, and nylon cord. Besides several Western publications, mention is made of a paper by V. A. Kargin and a paper by M. B. Lytkina, Ye. Ya. Yaminskaya, V. F. Yevstratov, and Ye. V. Troshkina on impact tests: BX (VKh) cord withstood 50 impacts, cord "Super-super", 129, and caprone cord, 850. The optimum modulus and elongation have not yet Card 1/4

\$/183/61/000/001/002/006 B101/B205

Present stage and ...

been determined. Tests made by A. V. Motorina, A. A. Konkin, N. V. Mikhaylov, and others confirmed that the behavior of polyamide heated in an inert atmosphere differs from that heated in air. 3) Brief analysis of data on the testing and practical use of tires made from different types of cord. It is noted that the NIIShP (Scientific Research Institute of the Tire Industry) has made several tests of tires which showed that caprone cord is best suited for the purpose. This is ascribed to the poor quality of viscose cord. 4) Technical and economic data on the use of viscose and polyamide cord. This section deals with an investigation carried out by VNIIV (All-Union Scientific Research Institute of Synthetic Fibers) in cooperation with the Scientific Research Institute of the Tire Industry, in the course of which the highly stable cord no. 5.45/2/1 was compared with caprone cord no. 10.7/2/1. Both types were assumed to have a lifetime of 63,000 km. When putting the cost of viscose cord as 100%, the following figures are obtained for caprone cord:

Card 2/4

Production of cord referred to a distance of 1000 km covered by the tire	Present stage and	S/ 183/61/000/001/002/006 B101/B205
	Expenditure of work needed to produce tissue. Prime Cost Raw material Cord tissue Cord and rubber (per 1000 km) The costs for sulfate cellulose and figures. According to estimates of search Institute of the Nitrogen Inc. Research Institute of Synthetic Fiber are 107% and 120%, respectively cost of caprone cord fiber as 100%. AP("AG") salt. According to I. Ye. cut is possible by using non-aromaticand butadiene. 5) Prospects of the of tire cord. Reference is made to	stance of

Present stage and ...

S/183/61/000/001/002/006 B101/B205

alcohol, polypropylene, and polyurethane fibers. The authors state that further research work would be necessary. They recommend caprone cord for the production of truck tires, and viscose cord for automobile tires. The development of caprone cord production intended in the Soviet Union does not exclude the production of nylon cord. V. L. Biderman and P. Kh. Drozhzhin are mentioned. There are 5 figures, 10 tables, and 53 references.

ASSOCIATION: MTI (Moscow Textile Institute): A. A. Konkin VNIIV (All-Union Scientific Research Institute of Synthetic Fiber): A. A. Rogovina, G. Ye. Birger

Card 4/4

15.5560

27567 S/183/61/000/005/003/003 B101/B110

AUTHORS:

Wu Jung-jui, Rogovin, Z. A., Konkin, A. A.

TITLE:

Grafting of polyacrylic acid on polypropylene fibers

PERIODICAL:

Khimicheskiye volokna, no. 5, 1961, 18 - 20

TEXT: The present paper deals with the dimination of the disadvantages of pure polypropylene fiber (PPF): hydrophobic nature, poor colorability, slipperiness, and unpleasant "cold" feel. For this purpose, grafting of polyacrylic acid (PAA) on previously oxidized PPF was studied. PPF no. 35 of the VNIIV containing 6% of amorphous, 6% of stereoblock, and 86% of isotactic fraction was used. Oxidation was carried out by means of atmospheric oxygen at 100°C. The initial PPF had a breaking length of 37.4 km, an elongation of 32%. After 48 hr oxidation, the PPF contained 0.010% of hydroperoxide groups (HPOG) at a breaking length of 33.4 km and a 26% elongation. After 96 hr, the HPOG content was 0.031%, breaking length: 21.9 km, elongation: 14.7%. PPF cxidized for 48 hr was used for further experiments. Grafting of acrylic acid on oxidized PPF was conducted in sealed ampuls with a 50% aqueous solution of the acid in argon atmosphere.

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Grafting of polyacrylic ...

27567 \$/183/61/000/005/003/003 B101/B110

The content of carboxyl groups in the grafted polymer was analytically determined after removal (washing-out) of the homopolymer (PAA). After 7 hr grafting, the following data were determined: with a 0.007% HPOG content at 650C, no COOH groups had formed in the PPF, at 80°C, PPF contained 3.5% COOH. The data for 0.010% HPOG are: 65°C, 3.0% COOH; 80°C, 4.1% COOH; for 0.031% HPOG: 65°C, 10.7% COOH; 80°C, 17.3% COOH. The reaction time exerted an effect upon the content of COOH groups. This content was 2.3% after 3 hr grafting at 80°C; breaking length of PPF: 31.0 km, breaking length: 27.8 km, elongation: 23.0%. To inhibit the formation of the PAA homopolymer, crystalline FeSO₄·7H₂O was added as reducing agent in amounts equivalent to the HPOG content in PPF. The following data were found:

W

Time of grafting, hr	temperature, OC	content of COOH groups, %	breaking length, km	elongation, %
3 49 121 Card 2/3	80 21 21	3.7 1.5 10.7	27.2 31.4 27.0	22.3 24.2 24.8

Grafting of polyacrylic ...

27567 \$/183/61/000/005/003/003 B101/B110

In the presence of FeSO₄, grafting has to take place in inert gas atmosphere, since in the presence of O₂, the Pe²⁺ ions act as catalysts in the oxidative destruction of polypropylene. Inhibition of the formation of homopolymeric PAA was confirmed by the fact that grafted PPF was soluble in acetone (in which PAA is insoluble) without turbidity in the presence of FeSO₄. Modified PPF was colorable by basic dyes. With a relative atmospheric moisture of 55.8%, PPF containing 8.2% COOH adsorbed 0.25% of the moisture, PPF containing 12.3% COOH, however, adsorbed 0.73%. There are 2 figures, 4 tables, and 8 references: 3 Soviet and 5 non-Soviet. The four references to English-language publications read as follows: G. Natta, J. Polymer Sci., 34, 685 (1959); D. J. Metz and R. B. Mesvolian, J. Polymer Sci., 16, 345 (1955); R. J. Orr, H. Levevne, Williams, J. Am. Chem. Soc., 79, 3137 (1957); R. Urwin, J. Polymer Sci., 27, 580 (1958).

ASSOCIATION: MTI

Card 3/3

KONKIN, A.A.; SERKOV, A.T.

Structure of cellulose. Vysokom.soed. 3.no.10:1610-1613 0 '61.

1. Nauchno-issledovatel skiy institut iskusstvennogo volokna.
(Cellulose)

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1. Vsesoyuznyy nauchno-issledovatel skiy institut iskusstvennogo volekna.

(Rayon spinning)

DRUZHININA, T.V.; ANDRICHENKO, Yu.D.; KONKIN, A.A.; ROGOVIN, Z.A.

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1. Moskovskiy tekstil'nyy institut.
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MEOS, A.; MIKHAYLOV, N.; MOGILEVSKIY, Ye.; POKSHVER, A.;

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On the 6Qth birthday of an honored worker. Khim.volok. no.2:79

'62. (MIRA 15:4)

(Grundev, Vasilii Alekseevich, 1902-)

NOVIKOVA, L.I.; KONKIN, A.A.; SHULYATIKOVA, N.V.

Effect of the degree of substitution of cellulese xanthate on the supermolecular structure of cord fiber. Khim.volok no.4:47-51 '62. (MIRA 15:8)

1. Vsesoyuznyy nauchno-issledovateliskiy institut iskusstvennogo volokna (for Novikova, Shulyatikova). 2. Moskovskiy tekstilinyy institut (for Konkin).

(Cellulose zanthate) (Rayon)

NIKOLAEYVA, N.S.; KONKIN, A.A.

"Polynose" (cellulose hydrate) fibers. Khim.volok. no.5:5-15
'62. (MIRA 15:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo volokna (for Nikolayeva). 2. Moskovskiy tekstil'nyy institut (for Konkin).

(Cellulose) (Rayon)

SHEVCHENKO, A.S.; KONKIN, A.A.; SERKOV, A.T.

Possibility of producing complex compounds with modifying agents during the process of viscose fiber formation.

Khim.volok. no.5:27-30 '62. (MIRA 15:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo volokna (for Shevchenko). 2. Moskovskiy tekstil'nyy institut (for Konkin). 3. Gosudarstvennyy komitet khimicheskoy promyshlennosti pri Sovete Ministrov SSSR (for Serkov).

(Viscose)
(Complex compounds)